

VOROB YEV. V. V.; STEPANOV, M.N.

Moscow - Building

New appearance of Moscow. Geog. v shkole no. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

VOROB'YEV. V. V., STEPANOV, M. N.

Russia - Economic Conditions - Paps

Map of the industrialization of the U.S.S.R., Geog.v shkole no. 1, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

VORCE 'IEV, V.V.; STEPANOV, M.N.

Books about the Altai Territory. Raviewed by V.V.Vorob'ev,
M.H.Stepanov. Geog. v shkole no.2:76-78 Mr-Ap '54. (MIRA 7:2)

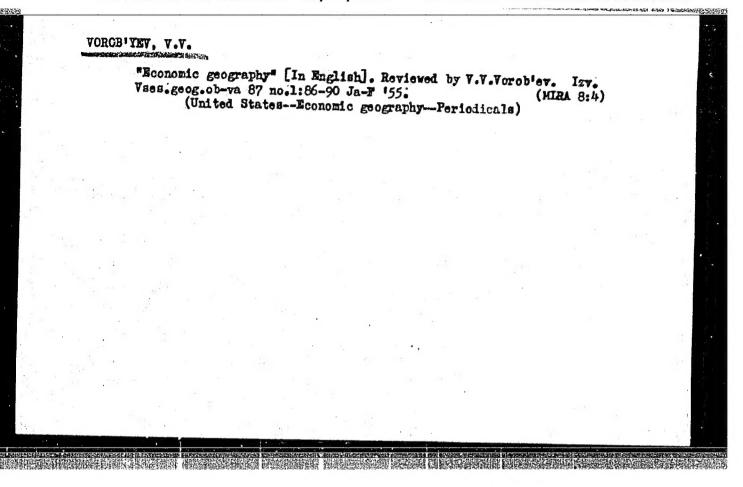
(Altai Territory-Description and travel)

STEPANOV, M.H.; VOROB'TEV, V.V.

Local publications devoted to individual towns. Reviewed by M.N. Stepanov, V.V. Vorob'ev. Vop.geog. no. 38:266-270 '56.

(MLRA 9:9)

(Cities and towns --Book reviews)



YOROB'YEV, V.Y.

Principal changes in the geography of urban developments in the south of Eastern Siberia during the last 40 years (1917-1957). Nauch.dokl.vys.shkoly; geol.-geog. nauki no.2:230-234 58.

(MIRA 12:2)

1. Moskovskiy universitet, geograficheskiy fakul'tet, kafedra ekonomicheskoy geofrafii SSSR.

(Siberia, Eastern—Cities and towns)

BLINKIN, A.M.; VOROB'YEV, V.V. [Vorobyov, V.V.]

Diffusion of iron in zirconium. Ukr. fiz. zhur. 9 no.1:9195 Ja '64. (MIRA 17:3)

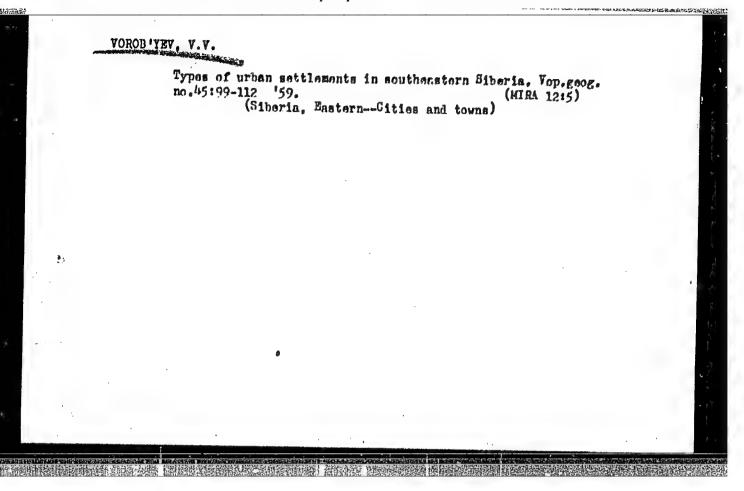
1. Khar'kovskiy gosudarstvennyy universitet.

NOROB'YEV, V.V.: Master Geogr Sci (diss) -- "The towns of the southern portion of eastern Siberia (Historical-geographical outline)". Moscow, 1958.

Moscow State U imeni M.V. Lomonosov), 150 copies (KL, No 1, 1959, 115)

BUYANTUYEV, B.R.; WOROB'YEV, V.V. Urban type settlements of Buryat-Mongolia. Kraeved.sbor. no.4:42-71 '59. (MIRA 13:7) (Buryat-Mongolia--Cities and towns)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860830002-3"

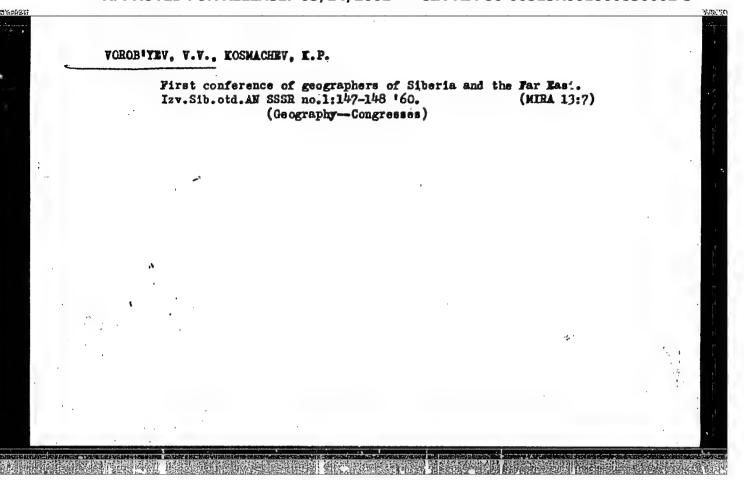


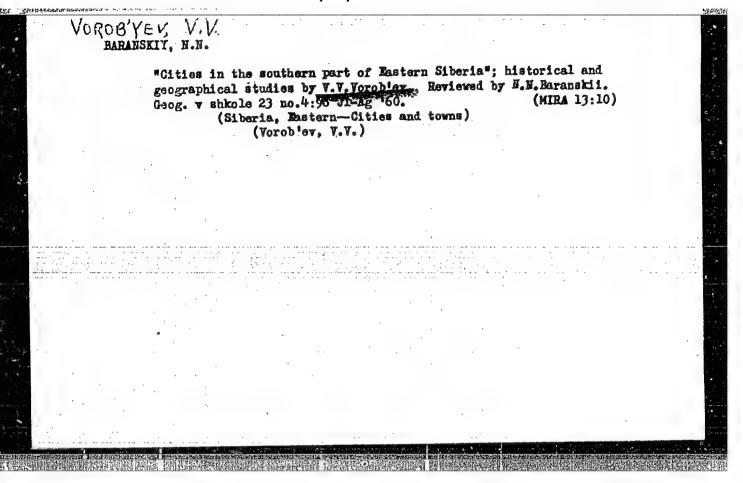
SOCHAVA, V.B., otv. red.; KROTOV, V.A., prof., otv.red.; GKRASIMOV, I.P., akad., red.; POKSHISHEVSKIY, V.V., prof. red.; RIKHTER, G.D., prof., red.; VOROB'YEV, V.V., kand.geogr.nauk, red.; KUDIMOVA, L.I., red.; KHMEL'HITSKAYA, Ye.S., red.; SEPPING, N.G., red.; PECHERSKAYA, T.I., tekhn.red.

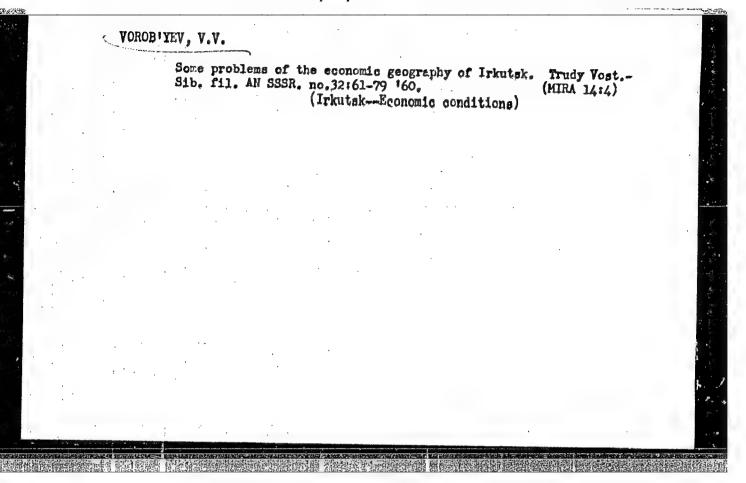
[Geographical problems of Siberia and the Far East; results of the First Scientific Conference of the Geographers of Siberia and the Far East] Problemy geografii Sibiri i Dal'nego Vostoka; itogi Pervogo nauchnogo soveshchaniia geografov Sibiri i Dal'nego Vostoka. Irkutsk, Irkutskoe knizhnoe izd-vo, 1960. 133 p. (MIRA 14:5)

1. Akademiya mauk SSSR. Sibirskoye otdeleniye. Institut geografii Sibiri i Dal'nego Vostoka. 2. Chlen-korrespondent AH SSSR (for Sochava)

(Siberia--Geography) (Soviet Far East--Geography)

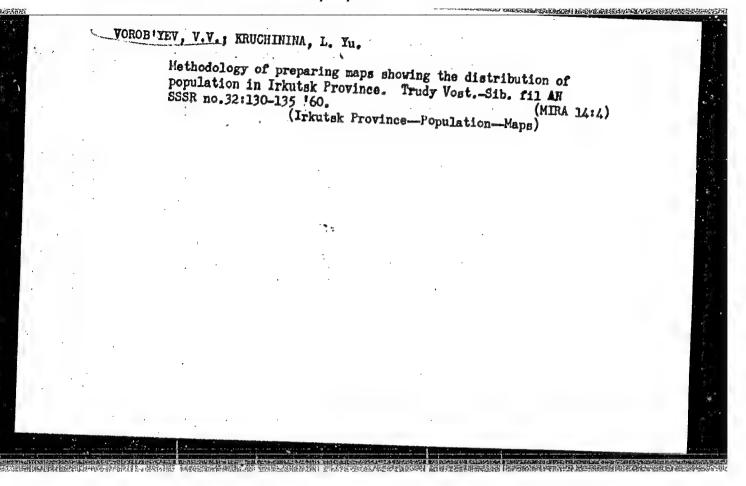






VOROBIYEV, V.V.; NEDESHEV, A.A.

Influence of peculiarities in the development of Chita upon the present-day features and functions of the city. Trudy Vost.—Sib. fil. AN SSSR no.32:87-95 '60. (MIRA 14:4) (Chita—Economic conditions)



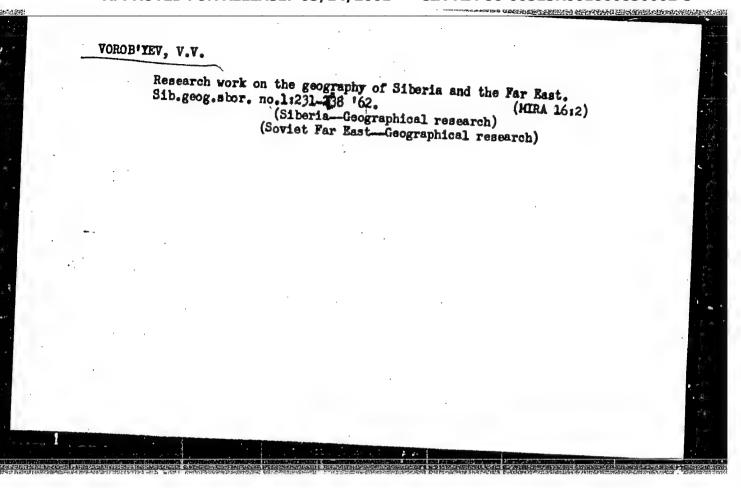
Characteristics of natural conditions in central Yakutia from the point of view of agriculture as illustrated by the Amga Valley. Biul.MOIP.Otd.geol. 35 no.1:131 Ja-F '60. (MIRA 13:7) (Amga Valley--Physical geography) (Agriculture)

POKSHISHEVSKIY, V.V., prof., doktor geogr. nauk, otv. red.; VOROB'YEV,

V.V., kand. geogr. nauk; MEYEROVICH, O.V., red. izd-va;

PRUSAKOVA, T.A., tekhn. red.

[Geography of the popylation of Eastern Siberia] Geografiia naseleniia Vostochnoi Sibiri. Moskva, Izd-vo Akad.nauk SSSR, 1962. 162 p. (MIRA 15:7)



Geographical problems of Yakutia. Reviewed by I.L.Kleopov, V.V.
Vorob'ev. Izv. Vses. geog. Ob-va 94 no.3:263-265 My-Je '62.

(Yakutia—Geography)

(Yakutia—Geography)

L 08168-67 EWT(m)/EWP(t)/ETI IJP(c) JD/JG ACC NR AP6024861 SOURCE CODE: UR/0056/66/051/001/0032/0037 AUTHOR: Finkel', V. A.; Smirnov, Yu. N.; Vorob'yev, V. V. ORG: Physicotechnical Institute, Academy of Sciences Ukrainian BSR (Fizikotechnical Institute Akademii nauk Ukrainskoy SSR) TITLE: Crystal structure of terbium at 120 -- 300K SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 51, no. 1, 1966, 32-37 TOPIC TAGS: terbium, low temperature research, crystal lattice structure, x ray diffraction analysis, phase transition, paramagnetism, antiferromagnetism ABSTRACT: This is a continuation of an earlier study of the crystal structure of rare earth metals (REM) (ZhETF v. 49, 1774, 1965), which was devoted to gadolinium. The present study was devoted to 99.5% pure polycrystalline terbium. The lowtemperature x-ray diffraction procedure employed was also described by the authors earlier (ZhETF v. 47, 84, 1964 and v. 49, 1077, 1965). The tests were made at temperatures 120 -- 300K. The results show that at 234K there a \(\lambda\)-anomaly of the coefficient of linear expansion, connected with the transition of the paramagnetic terbium into the antiferromagnetic state. At 223K a jump in the atomic volume is observed, signifying that the transition of the antiferromagnetic helicoidal structure into a ferromagnetic one (with colinear ordering) is a first-order transition. A small rhombic Card 1/2

ACC NR: AP6024861 distortion of the hexagonal crystal structure of the terbium lattice takes place at 223K. Slight discrepancies observed between the measured values of the transition temperatures and the latest published data may be connected with difference in the purity of the investigated terbium. Orig. art. has: 4 figures SUB CODE: 20/ SUEM DATE: 31Jan66/ ORIG REF: 006/ OTH REF: 013	08168-67	
	istortion of the hexagonal crystal structure of the terbium lattice takes place at 23K. Slight discrepancies observed between the measured values of the transition emperatures and the latest published data may be connected with difference of the	
	UB CODE: 20/ SUBM DATE: 31Jan66/ ORIG REF: 006/ OTH REF: 013	
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ACC NR. AP7000134

SOURCE CODE: UR/0115/66/000/011/0085/0085

AUTHOR: Al'bikov, Z. A.; Vorob'yev, V. V.; Shuvalov, R. S.

ORG: none

TITLE: A converter of time to amplitude

SOURCE: Izmeritel'naya tekhnika, no. 11, 1966, 85

TOPIC TAGS: digital analog converter, electronic circuit

ABSTRACT: A time-to-amplitude (t \rightarrow A) converter is described. Time-displaced input pulses u_1 and u_2 are applied to two monostable tunnel diode flip-flop circuits (TD₁ and TD₂) at the input of the converter (see Fig. 1.) The output pulses of these

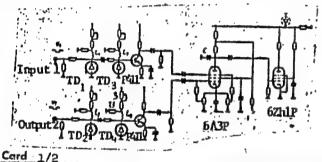


Fig. 1. Schematic diagram of the time-t to-amplitude converter

flip-flops are of equal amplitude and time duration. Pulse shapers containing tunnel diodes TD₃ and TD₄ extend the working amplitude range of the converter. The two pulses are then amplified by the P411 transistors and applied to the grids of the 6A3P tube. As long as the two pulses overlap, capacitor C (18 nf) in the anode circuit of the tube 6A3P linearly discharges through the tube. The voltage change across capacitor C is amplified by tube 6Zh1P and is proportional to the time shift between the two input pulses. The converter has an input resolution of 40 x -12 10 sec (at mid-height of the input pulses) which stays constant for input frequencies between 50 and 100 kc; it was used for measuring input pulses in the amplitude range from 1 to 90 with durations of (3—100) x -9 10 sec. Orig. art. has: 2 figures. — SUB CODE: 09/ SUBM DATE: 28Aug65/ ORIG REF: 001/ OTH REF: 001/ ATD PRESS: 5107

Card 2/2

ACC NRI AP6032475

SOURCE CODE: UR/0056/66/051/003/0786/0790

AUTHOR: Finkel', V. A.; Vorob'yev, V. V.

ORG: Physicotechnical Institute, AN UkrSSR (Fiziko-tekhnicheskiy institut

AN UKRSSR)

TITLE: Crystal structure of dysprosium at 77-300K

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 51, no. 3, 1966,

786-790

TOPIC TAGS: crystal, crystal structure, crystal lattice, crystal lattice

structure, dysprosium

ABSTRACT: The crystal structure of dysprosium is studied by the low-temperature x-ray diffraction method at temperatures between 77 and 300K. It is shown that at 178K, a negative anomaly of thermal expansion coefficients occurs which is related to a phase transition of the second kind similar to the helicoidal antiferromagnetism—paramagnetism type of transition. A discontinuity in the crystal lattice period and atomic volume at 85K and also the appearance of rhombic distor-

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860830002-3"

tions of the hexagonal lattice related to an antiferromagnetism-ferromagnetism phase transition of the first kind are observed. Orig. art. has: 3 figures.									
[Authors' ab	stract]								
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VOROB'YEV. Viktor Vasil'yevich: STEPANCHUK, Anatoliy Andreyevich; MAGON, E.E., red.

[Raising calves and piglets with the use of milk substitutes] Vyrashchivanie teliat i porosiat s ispol'zovaniem zamenitelei moloka. Leningrad, Kolos, 1965. 54 p.

(MIRA 19:1)

VOROBIYEV, V.Y. [Vorobiov, V.V.]

Distillation of yttrium. Ukr. fiz. zhur. 10 no.7:786-792

[MIRA 18:8]

1. Khar'kovskiy gosudarstvennyy universitet im. Gor'kogo.

L 9534-66 ENT(m)/ENP(v)/T/ENP(t)/ENP(k)/ENP(b)/ENA(c) SOURCE CODE: UR/0125/65/000/010/0052/0054 ACC NR: AP5026293 AUTHOR: Shleywovich, S. S. (Engineer); Vorob'yev, V. V. (Engineer); Rubanovich, B.B. 44.55 (Engineer) ORG: [Shleywovich] Ministry of River Fleet RSFSR (Ministerstvo recknogo flota RSFSR) [Vorob'yev] Organargostroy; [Rubanovich] Trest "Stal'konstruktniya" 44.55 TITLE: Experience in unshielded arc welding with bare alloy wire 44,53 16 SOURCE: Avtomaticheakaya svarka, no. 10, 1965, 52-54 TOPIC TAGS: unshielded are welding, welding technology, shipbuilding engineering, construction ABSTRACT: Mechanized unshielded are welding with bure alloy wire, developed in 1962 at the Ye. O. Paton Institute of Electric Welding, dispenses with the use of shielding atmospheres which is of major importance to mechanizing welding operations in shipbuilding and construction. What is more, it reduces by 35-40% the number of transverse deformations compared with manual and submerged-arc welding. The technique has been used with positive results to mechanize reinforcement-welding operations during the construction of poured-on-the-spot and precest reinforced concrete structures in the Konakovo, Kirishev and Burshtyn power stations, where it has served to markedly unc: 621 791.753.037 Card 1/2

L 9534-66

ACC NR: AP5026293

6

reduce the cost and time of the construction and essembling operations. The related experience shows that use of this technique to weld 100 joints of 40 mm thick reinforcement in the vertical position saves about 450 rubles and in the bottom position, 165 rubles (compared with manual velding). Mochanized unshielded are velding has also been introduced since 1963 at the Gomel' and Astrakhen' shipyards, with similarly satisfactory results. In addition, it has been used to weld together sheets of structural metal. It is a technique that assures an increase in productivity and reduction in production cost in conditions when other methods of mechanized velding are not applicable. Orig. art. has: 3 figures, 2 tables.

SUB CODE: 11,13/ SUEM DATE: 09June65/ ORIG REF: 003/ OTH REF: 000

Cord 2/2

IVANOV, V.Ye. [Ivanov, V.IE.]; VOROB'YEV, V.V. [Vorobiov, V.V.];
BALENKO, E.P.

Yttrium refinement in a vacuum. Ukr. fiz. zhur. 10 no.5: 543-547 My '65. (MIRA 18:5)

1. Khar'kovskiy gosudarstvennyy universitet im. Gor'kogo.

ENT(m)/ENP(t)/ENP(b) - IJP(c) L 5103-66 JD/JG

ACCESSION NR: AP5018639

UR/0185/65/010/007/0786/0792

AUTHOR: Vorobyov, V. V. (Vorob'yev, V. V.)

23

TITLE: Distillation of yttrium

22

B

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 7, 1965, 786-792 TOPIC TAGS: yttrium, distillation, rare earth element

ABSTRACT: Further possibilities were investigated of utilizing vacuum distillation for obtaining high-purity yttrium by using a condensation column with a temperature gradient. The temperature of the column varied from 1550 to 1600C. The distilling was carried out in an electropolished stainless steel chamber in a vacuum 5 x 10^{-6}

mm Hg. The distillation was from a tantalum crucible and the condensation was in a column with tantalum substrate. The column consisted of molybdenum and stainless steel cylinders, one inside the other, which served as radiation shields. The rate of evaporation was 6.7 x 10-5 g/cm sec. The results show that the distillation method yields yttrium of purity 99.8 wt. 1 with impurity content 1.4 x 10-3, <2.5 \times 10⁻³, <3 x 10⁻⁵, and 1.65 x 10⁻² wt. % Mg, Al, Si, and Fe, respectively, and with

only traces of Ti and Ni. The rare earth impurity content was also reduced considerably, to 2.6 x 10^{-2} , 2.3 x 10^{-2} , <5 x 10^{-2} , and <5 x 10^{-2} wt. f of ia, Gd, Tb, Er,

Card 1/2

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L 5103-66

AP5018639 ACCESSION NR:

and Ce. A shielded condensation column with heating was also used to distill yttrium. The rate of evaporation at 1600C was 13.1 x 10^{-5} g/cm²sec. Analysis of the condensate obtained between 1370--1430C indicates increased Mg, Fe, and Cu content. Orig. art. has: 6 figures and 3 tables.

ASSOCIATION: Kherkivs'kyy derzhuniversytet im. O. M. Hor'koho [Kher'kovskiy gosudarstvennyy universitet im. A. M. Gor'kogo] (Khar'kov State University)

SUBMITTED: 018ep64

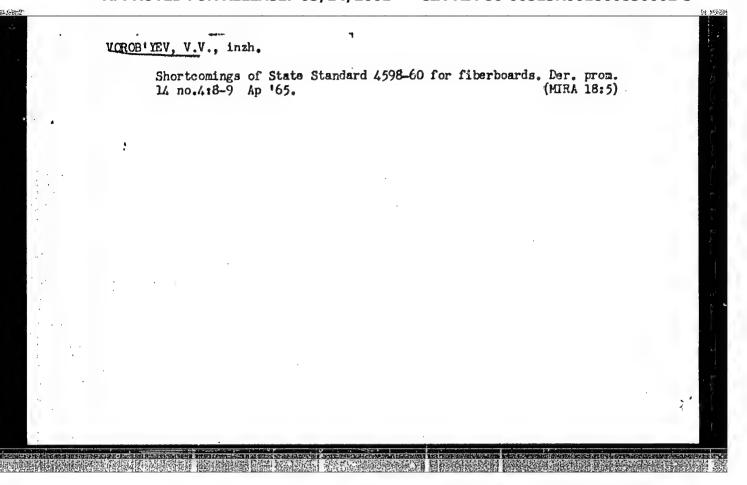
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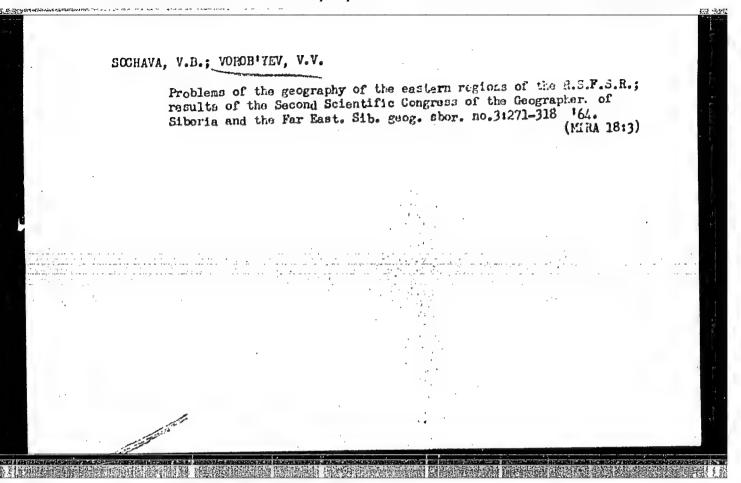
SUB CODE: GC. MM

NR REF SOV:

OTHER: 009

CIA-RDP86-00513R001860830002-3" APPROVED FOR RELEASE: 03/14/2001





PUKHOV, Grigoriy Aleksandrovich; SYSOYEVA, Larisa Pavlovna;
VOROB'YEV, V.V., red.

[Group technology in welding] Gruppovaia tekhnologiia v
svarochnom proizvodatve. Leningrad, 1965. 28 p.

(MIRA 18:5)

SMIRNOV, G.N.; KUMYSH, A.Z.; VOROB'YEV, V.V.

[Improvement of safety equipment, dust removing ventilation, and waste removal from Ch-460-L combing machines] Usovershenstvovanie sredstv tekhniki bezopasnosti, obespylivaiushchaia ventiliatsiia i udalenie ugarov na chesal'nykh mashinakh Ch-460-L. Ivanovo, 1963. 39 p.

1. Ivanovo. Vsesoyuznyy nauchno-issledovatel'skiy institut okhrany truda VTsSPS.

SOCHAVA, V. B.; VOROB'YEV, V. V.

Practice in coordinating the work of the Siberian and Far Eastern organizations of the Geographical Society of the U.S.S.R. Izv. Vses.geog.ob-va 96 no. 2: 140-144 Mr-Ap 164. (MIRA 17:5)

ACC NR: AP6029082 UR/0413/66/000/014/0156/0156 SOURCE CODE: INVENTOR: Rubtsov, M. V.; Mikhlina, Ye. Ye.; Vorob'yeva, V. Ya.; Lobanov, D. I.; Komarova, N. A. ORG: none TITLE: Preparation of 1-carbethoxymethy1-4-carbethoxypiperidine. Class 12. No. 149106 SOURCE: Izobret prom obraz tov zn. no. 14, 1966, 156 TOPIC TAGS: carbethocymethylearbetoxypipecidine synthosis, ethyl isonipelate alkylation, chloroacetic acid ester, ALKYLATION, CARBON COMPONNO ABSTRACT: To increase the yield and to simplify the preparation of the title compound by alkylation of ethyl isonipecate (I) with ethyl chloroacetate, the hydrochloride of I is alkylated in anhydrous ethanol inthe presence of Na₂CO₃. [WA-50; CBE No. 111] SUB CODE: 07/ SUBM DATE: 05Sep61 Card

MANUYLOVA, M.H.; VOROB'YEV, V.Ye.; OSTROUMOV, G.V.

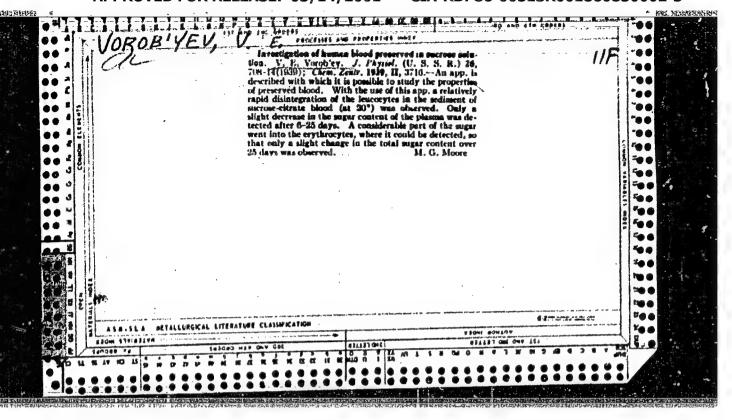
Pognatites in the Bol'shaya Minya Valley and their mica potential.

Trudy Lab. geol. doken. no.11:111-116 '60. (MIRA 14:1)

Trudy Lab. geol. dokem. no.11:111-116 '60.

(Bol'shaya Minya Valley-Pegmatites)

(Bol'shaya Minya Valley-Mica)



G/005/60/000/010/005/006 B015/B060

AUTHORS:

Mchedlov-Petrosyan, O. P., Vorob'yev, Y. L.

TITLE:

Prospects of Application of Some Natural Magnesium

Hydrosilicates in Industry

PERIODICAL:

Silikattechnik, 1960, No. 10, pp. 466-472

TEXT: The present article has been translated by Dr. G. Wagner, Berlin. The authors discuss the structure of serpentinite along with its binding properties and mention papers by Syromyatnikov, Medvedev (tests binding properties and mention papers by Syromyatnikov, Medvedev (tests binding properties and mention papers by Syromyatnikov, Medvedev (tests conducted at the asbestos-enriching plant of the Association (soyuzasbest"), Oganesyan, Budnikov, and Bereshnoy (Ref. 6), Vernadskiy (Ref. 12), Roginskiy (Ref. 23), Belov (Refs. 39-41), Sobolev (Ref. 42), (Ref. 12), Roginskiy (Ref. 23), Belov (Refs. 39-41), Sobolev (Ref. 42), Zhuravlev (Ref. 47), Bernal, Rebinder, Ratinov, and others. Figs. 7 and 8 Illustrate the authors' idea of a simplified scheme of the modifications illustrate the authors' idea of a simplified scheme permits establishing undergone by serpentinite on heating. This scheme permits establishing the correlation among partial dehydration, presence of lattice distortions, and appearance of activity. The re-arrangement of the

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Prospects of Application of Some Natural Magnesium Hydrosilicates in Industry

G/005/60/000/010/005/006 B015/B060

tetrahedra on the transition from antigorite to forsterite can take place in three ways, viz., by slight rotation around the symmetry axis of the antigorite tetrahedron; from two peak oxygen atoms and the central OH ion from a destroyed tetrahedron; by the displacement of base oxygen atoms from destroyed tetrahedra and transition of the OH ion to O at the vertex. The scheme offered here differs from those of other authors on related minerals by the presence of a stage of active state. The region of formation of this metastable transition state appears during the heating process prior to the complete disappearance of the antigorite crystal lattice and the formation of forsterite in the range of 600-700°C for serpentinite, and 700-750°C for precious serpentinite, or, in other words, on heating to the temperature of the maximum endothermal effect (Fig. 10, thermogram). Potentiometric investigations of the hydration process in serpentinite cement have shown that a pH drop may be observed in the period of active hydration (Table 1). In the backhydration of the cement (dehydration of the intermediate) there occurs

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Prospects of Application of Some Natural Magnesium Hydrosilicates in Industry

G/005/60/000/010/005/006 B015/B060

under the action of OH ions a crystal-chemical dispersion of the cement granules of the medium in particles of colloidal size as well as a structure formation on their basis and a crystallizing intergrowth of resulting aggregates, in which connection a partial superficial dissolution of the binding agents, formation of oversaturated solutions, and crystallization are possible. The authors base on their study of the properties of serpentinite cement to conclude as follows: the energy of the crystal lattice of binding agents must be considerably larger than the energy of the crystal lattice of the corresponding hydrates. The excess free energy from mineral formations possessing binding agent properties is caused by the presence of lower or degenerate coordinations of active structure cations. The pH is of greatest importance in the development of binding agent properties. Hydrates must form stratified crystals. Next, the authors supply data regarding the properties and the technology of serpentinite cement. A characteristic of the latter is that the rock is ground before burning, so that insufficient or excess burning is avoided and great economy is achieved. Mention is made of building materials on the basis of serpentinites, such as concrete and

Card 3/4

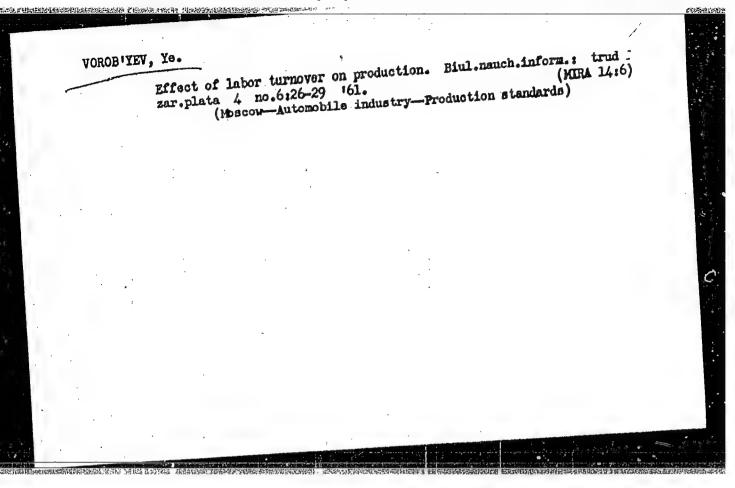
 Prospects of Application of Some Natural Magnesium Hydrosilicates in Industry

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mortar, road surfaces and other coatings, construction units and ornamental objects. The use of serpentinites as raw materials for the chemical industry and the production of refractories is also discussed. Akunov, Bazhenov, and Sal'nikova, Geriyeva, Desov are mentioned in the text. There are 11 figures, 1 table, and 60 references: 42 Soviet.

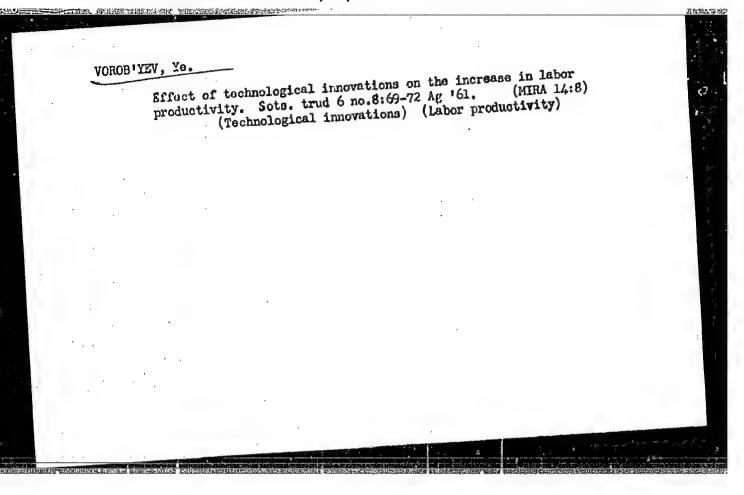
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507/146-58-4-7/22

9(2,3) AUTHOR:

Vorob'yev, Ye.A.

TITLE:

The Probability of Obtaining a Given Super-High Frequency Antenna Directivity Pattern

Izvestiya vysshikh uchebnykh zavedeniy, Priborostroye-

PERIODICAL:

niye, 1958, Nr 4, pp 36-44 (USSR)

ABSTRACT:

of antennas lead to Imperfections in the manufacture deviations of the actual antenna radiation characteristics from the calculated values. The actual antenna directivity pattern will become some approximation to the calculated one. This problem is important for antenna systems in the super-high frequency range in which the maximum permissible tolerance of the series production is already commensurable with the wave length. The influence of manufacturing imperfections on the radiation of certain super-high frequency antennas were considered in a number for foreign papers [Ref 1,2,3, 4.57. These papers contain long and complicated cal-culations which produce with a known approximation an estimation of the radiation characteristics and the

dard 1/4

SOV/146-58-4-7/22
The Probability of Obtaining a Given Super-High Frequency Antenna
Directivity Pattern

directivity pattern in particular. This paper is the first attempt made for obtaining an approximated solution of the problem of the directivity pattern. The author shows that the relative tolerance of the series production provides with a certain probability the required antenna radiation pattern for radiating cophased openings with dimensions considerably greater than A, apart of the dependence of the antenna type. This is achieved by the analysis of the actual directivity pattern under consideration of randum deviations in the real phase front in the opening plane. It may be assumed that manufacturing inaccuracies lead to phase and amplitude errors of the field in the radiating aperture. When determining the field in a considerably distance of the antenna, the principle error is caused by the phase deviation, whose influence is considered in this paper as a function of the tolerance. As the manufacturing tolerance is known, then there is a certain probability that $\Delta \Psi$ may by found as

dard 2/4

The Probability of Obtaining a Given Super-High Frequency Antenna Directivity Pattern

a function of b (maximum possible lag or advance of the element center in regard to the phase surface). Knowing the theoretical amplitude-phase characteristics of the antenna, with the same degree probability, the deviation of the actual directivity pattern from the calculated value may be determined. The connection between the possible phase deviation of a phase front element and a manufacturing tolerance may be established by the root-mean-square deviation. The author derives two equation (26) and (33) which facilitate not only an estimation of the real antenna field in the main direction and for the lobes with a known manufacturing tolerance E_{np}, but they also provide the possibility to anticipate the possible percentage of rejects in the series production by selecting the magnitude X

Card 3/4

$$-N(\partial \theta)^{2}$$
 20log $\left[\sqrt{1-x \cdot p \cdot \sin\left(\frac{2\pi}{x} E_{\text{otn}}\right)}\right]$

 The Probability of Obtaining a Given Super-High Frequency Antenna Directivity Pattern

N
 ∂ .60k. $(\partial \mathcal{E}) = ^{N}$ T 60k. $(\partial \mathcal{E}) + |^{N}$ T 60k $(\partial \mathcal{E}) + |^{N}$

+20
$$\log \sqrt{\frac{4\pi \cdot S \cdot x \cdot p^2 \cdot \sin \left(\frac{4\pi}{x} E_{\text{otn}}\right)}{\lambda^2}}$$

where No. FOK (25) is the actual level of lateral antenna radiation (in decibels), NT. FOK. (35) is the theoretical level of antenna radiation. There are 5 diagrams and 8 references, 3 of which are Soviet and 5 English.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: July 10, 1958

Card 4/4

VOROB'YEV, Ye.A., aspirant

Determining production tolerances for slot antennas. Izv.
vys.ucheb.zav.; prib. no.5:64-68 '58. (MIRA 12:6)

1. Leningradskiy institut tochnoy mekhaniki i optiki.
(Radio-Antennas)

67473 SOV/146-2-4-18/19

9(1)-9,1000

Aspirant Vorob'yev, Ye.A., AUTHOR:

The Design of a Printed Antonia With a Conical Ra-

TITLE: diation Pattern

Priborostroye-Izvestiya vysshikh uchebnykh zavedeniy. PERIODICAL:

niye,1959, Nr 4, pp 149-151 (USSR)

A new printed antenna (Figure 1) for three-centimeter ABSTRACT:

wave lengths is described. It represents a regular cylindrical cavity whose diameter is far bigger than the wave length and whose height is commensurate with the wave length. The upper and lower walls of the cylinder are made of electroconductive material. Annular radiation slots are cut into the upper wall; they are symmetrical with the cylinder axis and concentric. The cylindrical-wave exciter is in the

center of the lower wall. The new antenna differs

from other high-directional printed antennas /Referenc Card 1/2

。 一种的大型。 一种的大量。 一种的大量。

67473 SOV/146-2-4-18/19

The Design of a Printed Antenna With a Conical Radiation Pattern

1,27 by its simplicity. It can be used in complex radio equipment for different purposes. This article was recommended by the Kafedra radiopereday-ushchikh i radiopriyemnykh ustroystv (The Chair of Radio-Transmitting and Radio-Receiving Devices). There are 2 photographs and 2 English references.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (The Leningrad Institute of Precision Mechanics and Optics).

SUBMITTED: Marc

March 14, 1959.

Card 2/2

-9(1) 9.1000

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SOV/146-2-4-19/19

AUTHOR:

بالمسدورة الماراة

Vorob'vev Ye. A., Aspirent; Petrov, Ye. A.,

Engineer; Tennison, G.G., Engineer; Filippov, N.N.,

Senior Instructor

TITLE:

An Installation for Measuring and Automatically Recording Directional Patterns of Super-High-Frequency

Antennas

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Priborostroye-

niye,1959, Nr 4, pp 152-154 (USSR)

ABSTRACT:

In 1958-59, under the supervision of Senior Instructor N.N. Filippov, the authors developed a high-accuracy installation automatically recording the directional patterns of super-high-frequency antennas. The installation is shown in a diagram (Figure 1) and a photograph (Figure 2). For continuous automatic recording, the modernized "EPP-09"/automatic recorder is used, whose recording tape moves with a velocity of 60 to 20 000 mm/hour. The equipment can be used to measure the recorded directional patterns for adjusting

Card 1/2

and regulating antenna test units in laboratories as

67474 SOV/146-2-4-19/19

An Installation for Measuring and Automatically Recording Directional Patterns of Super-High-Frequency Antennas

well as in the open air. This article was recommended by the Kafedra radiopriyemnykh i radioperedayushchikh ustroystv (The Chair of Radio-Transmitting and Radio-Receiving Devices). There is 1 diagram, and 1 photograph.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki

(The Leningrad Institute of Precision Mechanics and

Optics).

SUBMITTED: July 29, 1959.

Card 2/2

VOROB'YEV, Ye.A.

25(6) 9(1)

S/146/60/003/01/016/016 1002/1006

ATTHOR:

Voyoblyevo Yanke, Post Graduate Student

TITLE:

Similating the Mammfacturing Errors of SHF Antennas

Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, Vol 3, 1960, Hr 1, pp 115-118 (USSR)

PERIODICAL:

ABSTRACT:

The author proposes a method for simulating the manufacturing orrors of SHF antennas for determining experimentally the relation between actual production errors and tolerances. It consists in using relatively simple enterms models with intentionally inaccurate component dimensions in compliance with the law of rendom errors. The inaccuracy of the dimensions is produced during the manufacturing process of the enterna model with high accuracy. The method is checked and experimentally using two antenna models working in the 3 cm radio wave range (Figure 1, photograph), one being an ideal model, i.e. manufactured with an accuracy of 0.05 mm, the other having intentional dimensional errors with maximum compliance to the Gaussian Law. The results of the experiments showing the characteristics of both antennas are shown in a graph (Figure 2). Comparison of the theoreti-

Card 1/2

S/146/60/003/01/016/016 D002/D006

Similating the Manufacturing Errors of SHF Antennas

cal and experimental results shows that the method is reliable. The article was recommended by the Kafedra radiopriyenykh i radiopredayushchikh ustroystv (Chair of Radio-Receiving and Radio-Transmitting Devices). There are 1 photograph, 1 graph, and 7 Soviet references.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED:

December 12, 1959

Card 2/2

s/142/60/003/004/004/013 E192/E382

9.1800

The Problem of the Maximum Possible Gain of Ultrahigh-

TITLE:

AUTHOR: Izvestiya vysshikh uchebnykh zavedeniy, frequency Antennae 259 Radiotekhnika, 1960, Vol. 3, No. 4, pp. 471-476

The influence of the phase errors in the wave front on the reduction of the gain of highly directional antennae PERIODICAL:

on the reduction of the gain of nightly directional ambening is considered. The evaluation of the reduction in gain of a real directional antenna is carried out under the assumption that the phase front in the antenna aperture can be represented in the form of a steplike phase surface. represented in the lorm of a stepline phase surface. This is divided into n elements so that the overall theoretical

field of the antenna is given by:

is the phase of a field

Due to the constructional imperfections of the where

element. Card 1/5

CIA-RDP86-00513R001860830002-3 85320 s/142/60/003/004/003/013 The Problem of the Maximum Possible Gain of Ultrahighantenna elements, phase errors AW appear in the phase The field of the real antenna can thus be represented frequency Antennae front. Since the mechanical errors in the antenna (due to the mechanical errors are random, the phase front errors are also random and distributed in accordance with the by: mechanical tolerances, are random, the phase front error are also random and distributed in accordance with the are also random and distributed in accordance with the COTH Gaussian law. The relationship between the tolerance and the probable mean square phase deviation of (3) represented by: EOTH Card 2/5

CIA-RDP86-00513R001860830002-3" APPROVED FOR RELEASE: 03/14/2001

S/142/60/003/004/004/013 E192/E382

The Problem of the Maximum Possible Gain of Ultrahighfrequency Antennae

where x is the probability factor determining the relationship between the given tolerance and the magnitude of the mean square deviation for this tolerance (normally x = 2.6). The relationship between the relative tolerance production tolerance is expressed by Eq. (4), where λ is the effective wavelength of the antenna. Eq. (3) can, therefore, be written as Eq. (5). Eq. (2) can be rewritten as Eq. (6) provided $\Delta \Psi_1$ are small. Eq. (6) can also be represented as Eq. (8). All the terms of Eq. (8), except the first one, depend on the random variable $\Delta \psi_{i}$ which obeys the normal distribution law. On the basis of the above formulae it is shown that the reduction in the gain (db) of a real antenna in comparison with a theoretical one, is expressed by:

Card 3/5

S/142/60/003/004/004/013 E192/E382

The Problem of the Maximum Possible Gain of Ultrahigh-frequency Antennae

Noc. (36) =
$$10 \frac{F_0^2}{F_T^2}$$
 = $10 \text{ Ig} \left[1 - \left(\frac{2\pi}{x} \cdot \epsilon_{\text{OTH}} \right)^2 \right]$ (9)

The gain of the real antenna can thus be expressed by Eq. (10). This can be rewritten as Eq. (13) in which p is the surface utilization coefficient, K_S is a coefficient dependent on the

shape of the antenna aperture; n is defined by Eq. (12), where L is the longest linear dimension of the antenna aperture. Eq. (13) can approximately be written as Eq. (15), aperture m is defined by Eq. (14). The optimum value of the gain where m is defined by Eq. (14). The optimum value of the gain is obtained when n is expressed by Eq. (16). If it is assumed that x = 2.6, the optimum value of gain is given by Eq. (17). By investigating the above it is found that the maximum possible gain of ultrahigh-frequency antenna is of the

Card 4/5

\$\frac{142}{60}\rightarrow{003}\rightarrow{004}\rightarrow{013}\text{E192}\rightarrow{E382}

The Problem of the Maximum Possible Gain of Ultrahigh-

order of 70 db; this value is obtained from Eq. (17) for m = 0.001. If an attempt is made to obtain higher gains, the difficulties connected with achieving very high mechanical tolerances will become considerable. There are 5 Soviet references.

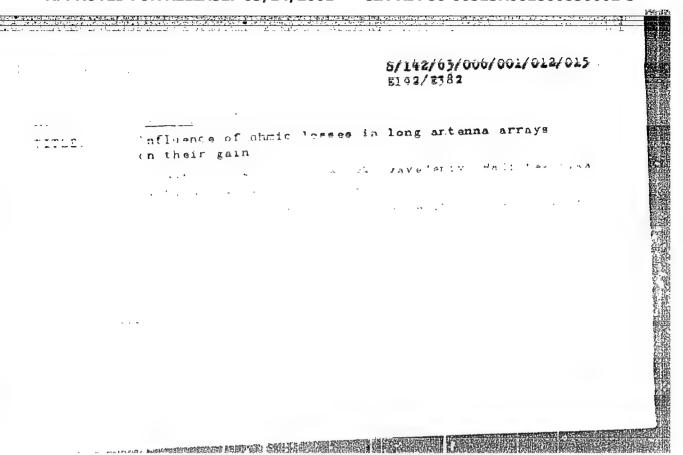
ASSOCIATION:

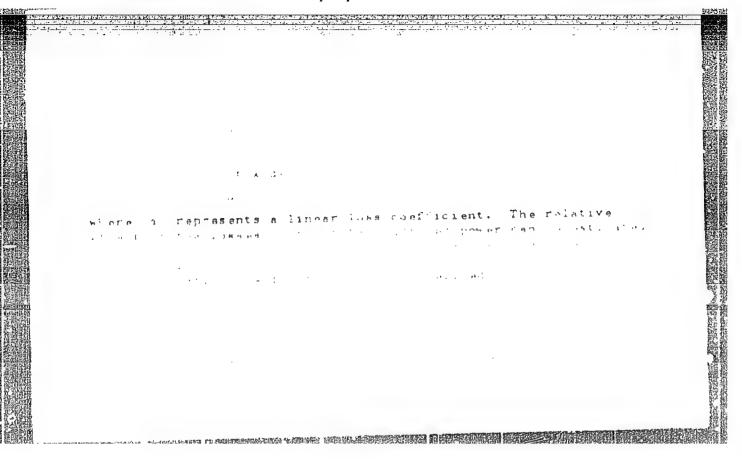
Kafedra radiopriymnykh i radioperedayushchikh ustroystv Leningradskogo instituta tochnoy mekhaniki i optiki (Chair of Radio Receiving and Transmitting Devices of the <u>Leningrad Institute</u> of Precision Mechanics and Optics)

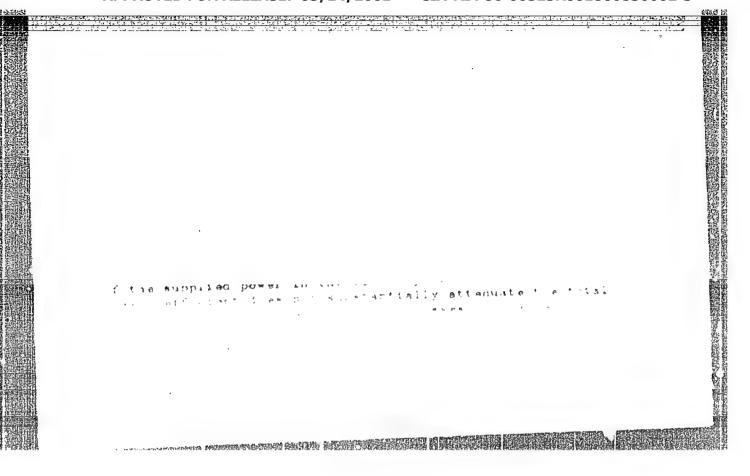
SUBMITTED:

June 1, 1959, initially; September 7, 1959, after revision.

Card 5/5









5/0108/64/019/004/0017/0018

ACCESSION NR: AP4029456

AUTHOR: Vorob'yev, Ye. A.

TITLE: Effect of nonradiating elements upon the radiation characteristics of pencil-beam antennas

SOURCE: Radiotekhnika, v. 19, no. 4, 1964, 17-18

TOPIC TAGS: antenna, SHF antenna, pencil beam antenna, beam antenna, antenna radiation characteristics

ABSTRACT: Two approximate formulas are developed for the directive gain and the radiation pattern which allow for the presence of a nonradiating element (structural member) in an SHF-antenna aperture. The element is regarded as the source of a special type of phase error; it is assumed that the element does not distort the amplitude-and-phase distribution in other points of the aperture, that it has a counter-phase field, and that the greater linear dimension of the

Card 1/2

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860830002-3

ACCESSION NR: AP4029456

element is comparable with the operating wavelength. Orig. art. has: 6 formulas.

ASSOCIATION: none

SUBMITTED: 26Jun62

DATE ACQ: 30Apr64

ENCL: 00

SUB CODE: EC

NO REF SOV: 002

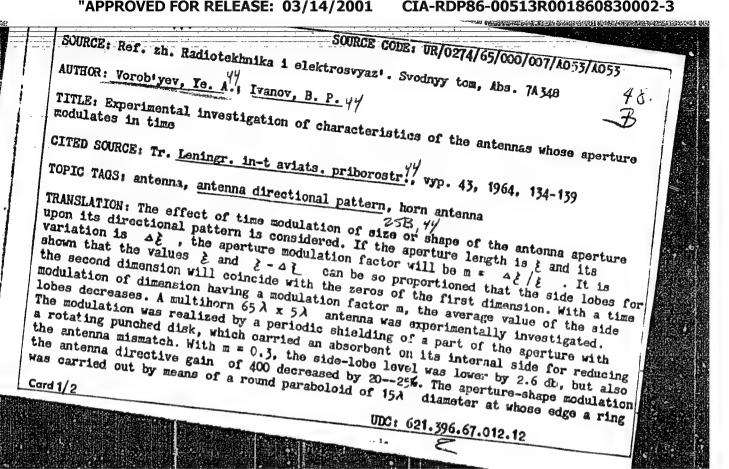
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Card 2/2

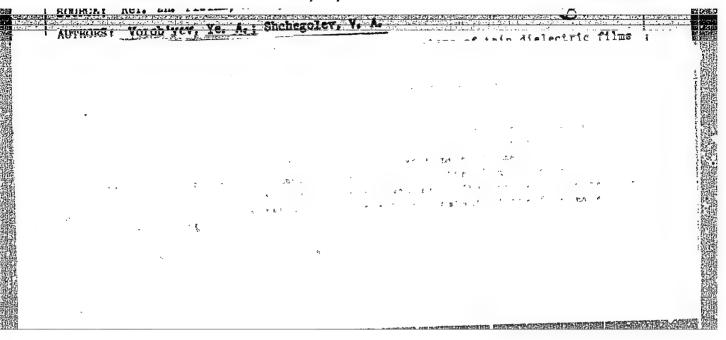
L 8770-66 2HT ACC NR: AR5018770 SOURCE CODE: UR/0274/65/000/007/A051/A051 SOURCE: Ref. zh. Radiotekhnika i elektrosvyazi. Svodnyy tom, Abs. 7A334 AUTHOR: Vorob'yev, Ie. A. TITLE: Design of multihorn shf pencil-beam antennas 258, CITED SOURCE: Tr. Leningr. in-t aviats. priborostr., vyp. 43, 1964, 111-119 TOPIC TAGS: horn antenna, pencil beam antenna, shf antenna TRANSLATION: A possibility is considered of designing pencil-beam antennas consisting of a linear array of sectoral horns whose dimensions are small in comparison with a single-horn antenna; a smaller size for the same directional pattern is sought. Formulas are presented for calculating the directional pattern, gain, and directive gain. A linear array of 10 horns with $2\lambda \times 5\lambda$ apertures and 6λ generatrix is considered. The antenna is fed by a waveguide terminated with an absorber and exciting the array horns in series. The efficiency of such a system is 67%. With a directive gain of 1450, the theoretical gain is 900 and the experimental, 880. The directional pattern width is 1026" and 1030", and the maximum side-lobe level is 12.4 and 12.5 db, respectively. Bib 5, figs 5, tab.1. SUB CODE: 17 JW Card 1/1 VDC: 621.396.677.493

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860830002-3"

L 8768-66 EWT(1)/EWT(m)/T/EMP(b)/EMP(t)	TJP(c) GG/JD E CODE: UR/0274/65/000/007/A084/A084				
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SOURCE: Ref. zh. Radiotekhnika i elektrosvya	z'. Svodnyy tom, Abs. 7A591				
44,55 . 44,55					
AUTHOR: Vorobiyev, Te. A.; Shchegolev, V. A.	. E				
TITLE: Precision measuring electric parameter	rs of thin dielectric films $\hat{\gamma}$				
CITED SOURCE: Tr. Leningr. in-t aviats. prib					
TOPIC TAGS: dielectric measurement,/thin fil	n atmosts				
the same of the sa					
TRANSLATION: A method is described of measure thickness t = $t_g \sqrt{\epsilon_0}/\lambda_0$ of films, in the	ing diglactric constant F and electrical				
covers a small spot of the film and does not	inflict any mechanical damage to or				
destruction of the film. Two shf measurement the effect of the film geometrical thickness	outfits are considered which depend on				
passing through the film. The results of mea	surements of various-material Illms,				
the instability of operation of individual assemblies, and their errors are					
discussed. The measurement error of the above outfit was 2 76 or less.					
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FIKHMAN, V.D.; ASH, M.A.; VUROB'YEV, Ye.A.; PAKSHVER, A.B.

Mechanism of the formation of polyvinyl chloride fibers. Khim.
volok. no.1:28-34 '65. (MIRA 18:2)

1. VNIISV (for Fikhman, Ash, Pakshver). 2. Vsesoyuznyy zaochnyy institut tekstil'noy i legkoy promyshlennosti (for Vorob'yev).

VOROB'YEV, Yevgeniy Aleksandrovich; KATASHOVA, R.I., red.; TOLYPINA, O.N., red.; FOLIOMAREVA, A.A., tekhn. red.

[Methodological problems of measuring and analyzing labor productivity] Metodologicheskie voprosy izmereniia i analiza proizvoditel'nosti truda. Moskva, Ekonomizdat, 1963. 166 p. (MIRA 17:1)

(Labor productivity)

L 08242-67 ENT(d)/ENT(1)/ENT(m) JD/JAJ

ACC NR: AR6032320

SOURCE CODE: UR/0274/66/000/007/B032/B032

AUTHOR: Vorob'yev, Ye. A.; Kuznetsov, N. A.

30

TITLE: Contactless method of measuring distances and small displacements with high accuracy

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz! Abs. 7B205

REF SOURCE: Tr. Leningr. in-t aviats, priborostr., vyp. 45, 1965, 127-130 .

TOPIC TAGS: measurement, radio engineering, distance measurement

ABSTRACT: A radio engineering method for measuring distances and small displacements for items made of radio-opaque materials. The action principle of the measuring circuit is described, its operation is analyzed, and the results of the experiment carried out on a model are given. [Translation of abstract]

SUB CODE: 09/

Card 1/1 //

UDC: 621.396.96:621.371

122774-66 EWT (1)/EWA(h) ACC NR. AP6010733 SOURCE CODE: UR/0142/66/009/001/0130/0132 Vorob'yev, Ye. A. AUTHOR: ORG: none TITLE: Interferometer for measuring the dielectric constant of dielectrics in the microwave region Radiotekhnika, v. 9, no. 1, 1966, 130-132 SOURCE: IVUZ. TOPIC TAGS: interferometer, dielectric constant, dielectric material ABSTRACT: A radio interferometer system developed for measuring the dielectric constant of flat dielectrics in free space in the microwave region ($\lambda = 3-5$ mm) is briefly described. The system can be used both for controlling flat dielectric plates and for measuring the electric thickness of the walls of antenna domes. The klystron generator used in the system is isolated from the transmitting horns of the reference and measuring channels by means of a directional coupler and double

decoupled with respect to the phase indicator by means of double Cord 1/2

UDC: 621.317.335.029.65

waveguide bridges. To establish initial phase-amplitude relationships. a phase shifter is coupled to the reference channel, and an attenuator is included in the measuring channel. The receiving horns of the reference and measuring channels are both mutually decoupled and

	L 22774-66 ACC NR: AP6010733
	waveguide bridges. The receiving part of the system is rigidly attached to a movable carriage with an indicator for performing exact readings of displacements of the receiving horns with respect to the fixed transmitting horns. The system is first balanced without the dielectric to achieve equal power in both channels and secure opposite phases of the signals entering the phase indicator. A plate of the dielectric material to be measured is then placed between the horns perpendicular to their axis. Orig. art. has: 2 figures and 1 table.
	(JR)
	SUB CODE: 09/ SUBM DATE: 15Feb65/ ATD PRESS: 4229
:	Card 2/2dda

ACC NR: AP6032925

SOURCE CODE: UR/0142/66/009/003/0359/0362

AUTHOR: Vorob'yev, Ye. A.

ORG: none

TITLE: Some criteria of fabricating large-size monolithic radomes

SOURCE: IVUZ. Radiotekhnika, v. 9, no. 3, 1966, 359-362

TOPIC TAGS: radome, aircraft radome

ABSTRACT: Formulas for the maximum radome height (measured in working-wavelength units) as a function of radome-material dielectric constant, for the error associated with radome machining, and for the dielectric-constant-deviation tolerance are derived. The effect of the radome mean-square phase error on the antenna-radiation characteristics can be estimated by well-known methods, and thereby the relations between the radome-machining parameters and the antenna-proper characteristics can be established. It is found that the practical accuracy of modern machining methods does not permit fabrication of large-size half-wave radomes higher than 80 λ_0 . Orig. art. has: I figure and 16 formulas.

SUB CODE: 09 / SUBM DATE: 16Mar65 / ORIG REF: 002

Card 1/1

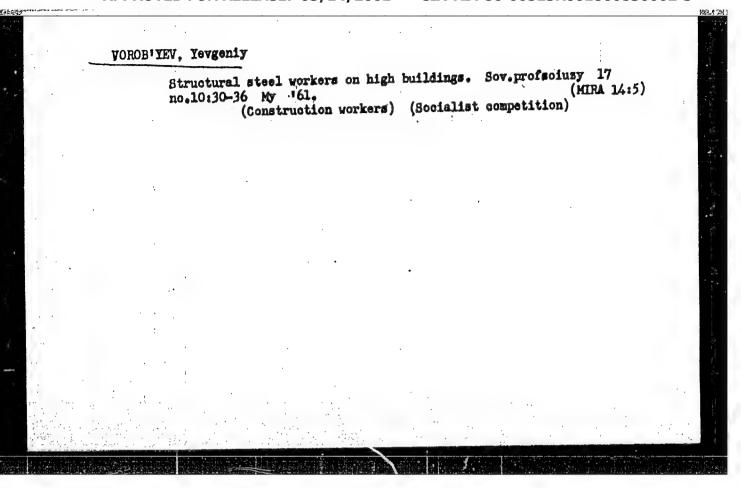
UDC: 621.396.677.8

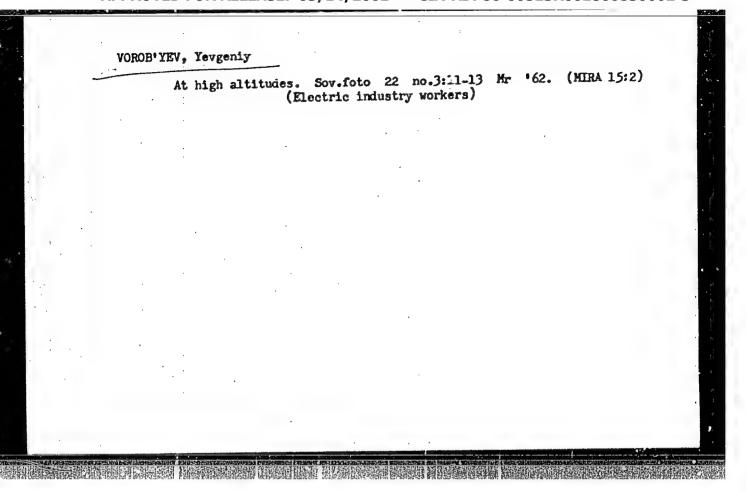
VOROBITEV, Ye.A. Johnson's comet (1949 II- 1956 V). Astron. tsir. no.234:2-3 F '63. 1. Astronomicheskaya observatoriya im. Engel'gardta. (Comets-1956)

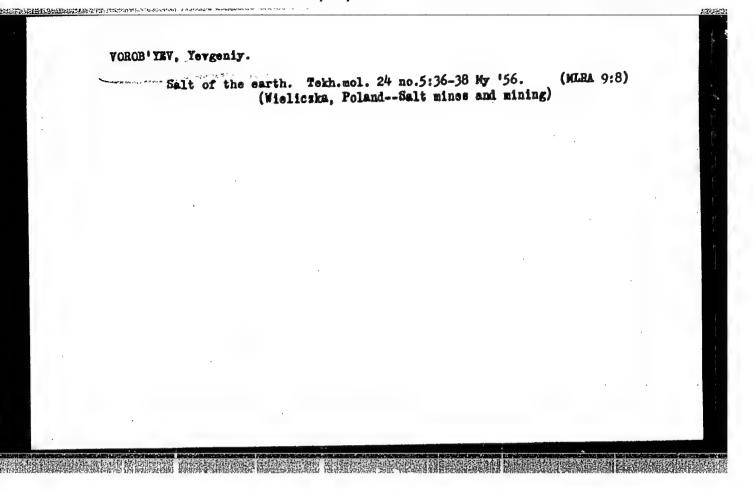
VOROB!YEV, Ye.A. Measurement indices of labor productivity. Avt.prom. no.3:1-3 Hr '61. 1. Institut ekonomii AN SSSR. (Labor productivity)

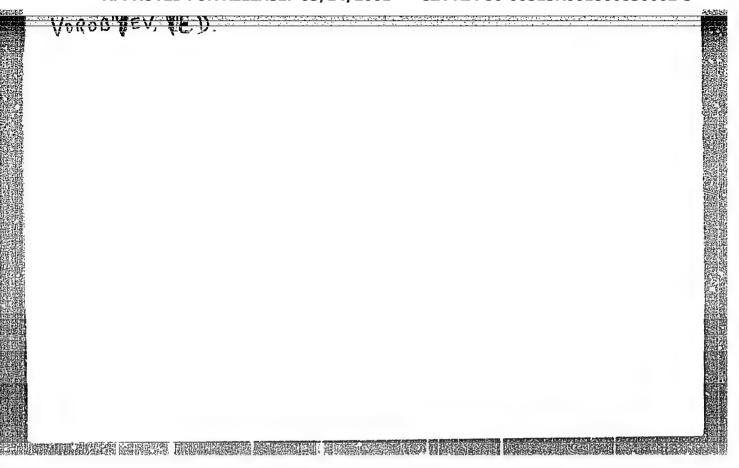
VOROB'YEV, Ye'A.

Possible identity of Barnard's comet (1884 II) and Johnson's comet (1949 II and 1956 V). Astron. tsir. no.24123-4 Ap*63 (MIRA 17:2)









VOROB'YEV, Ye.D.

"Uranium-Water Intermediate Reactor Used for Obtaining High-Intensity Neutron Fluxes" (Paper to be presented at 1953 UN "Atoms for Peace" Conference, Geneva).

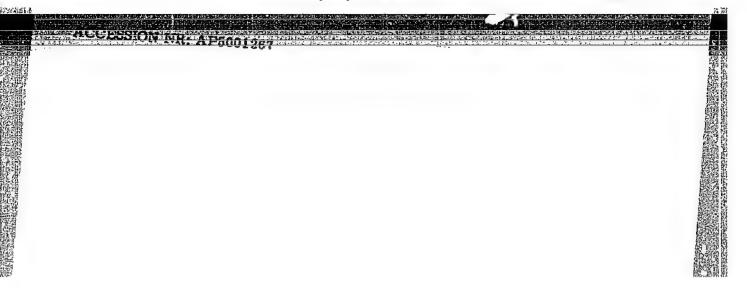
Doklady sovetskikh uchenykh; yadernyye reaktory i yadernaya energetika. (Reports of Soviet Scientists; Nuclear Reactors and Nuclear Power) Moscow, Atomizdat, 1959. 707p. trudy vol. 2.

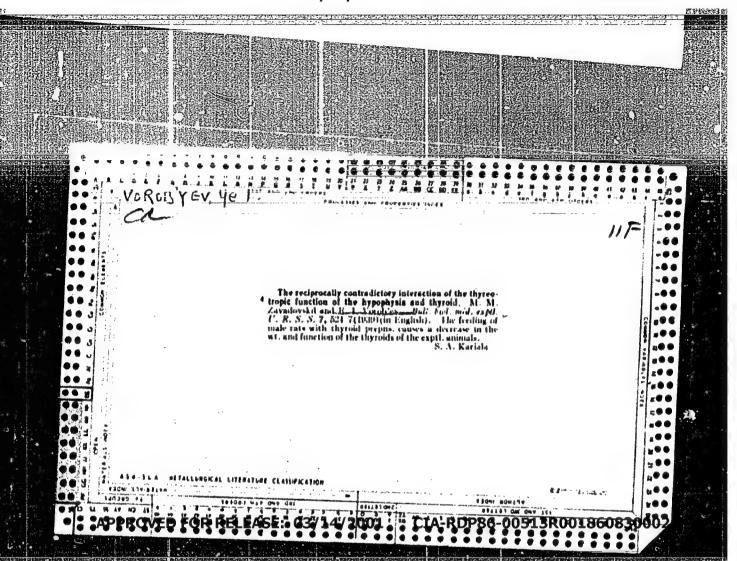
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	G. E., Kalashnitova, V. X., Podgurskaya, A. V., v. Ve. B., Biolyarav, G. A. Podgurskaya, A. V., v. Velgurskaya, A. V., v. Velgurskaya, A. V., v. Velgurskaya, A. V., v. Velgurskaya, V. Velgurskaya, V. Velgurskaya, V. Velgurskaya, V. Velgurskaya, V. Velgurskaya, Velg	1959.	Lurantam featal investigation of the featal investigation of the formal investigation of the formal investigation of the above seed and the above seed and the above seed and the above seed the featal investigation of the featal investigation of the featal investigation of the featal investigation of the featal investigation of the featal investigation of the featal investigation of the featal investigation of the featal investigation of the feata		on frequency factors on frequency factors on frequency factors of Parker faresil- of the finituality of out at 3060 m of with the calculate of with the calculate necession of the meeth of		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
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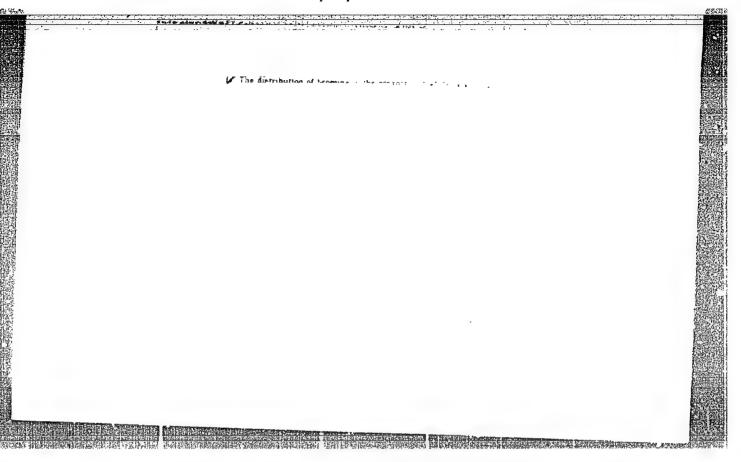
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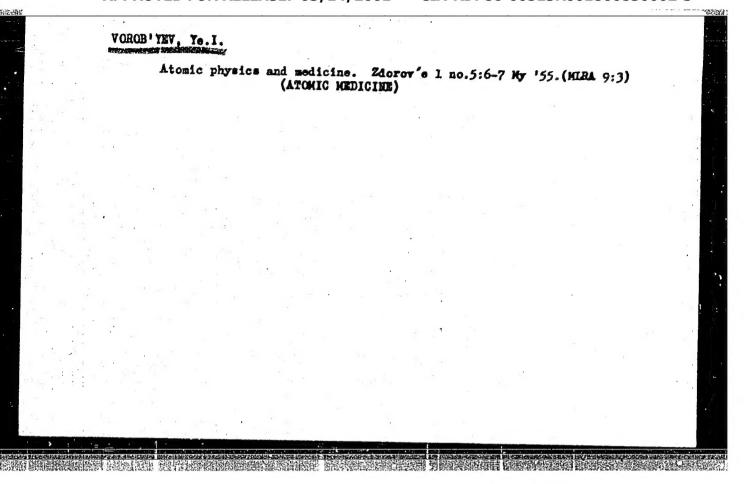
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